



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Road Nashville, TN 37204 Tel: 800-765-0980

TestAmerica Job ID: NWB3461

Client Project/Site: NPDES Permit MA0000833 Client Project Description: Everett Terminal

For:

Exxonmobil Everett Terminal 52 Beacham Street Everett, MA 02149

Attn: Ernest Haynes

I air a dage

Authorized for release by: 3/2/2012 1:14:33 PM

Gail A Lage

Program Manager - National Accounts gail.lage@testamericainc.com

.....LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Definitions	4
Client Sample Results	5
QC Sample Results	6
QC Association	8
Chronicle	9
Method Summary	10
Certification Summary	11
Chain of Custody	12

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Sample Summary

Matrix

Waste Water

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

Client Sample ID

Outfall 01 A

Lab Sample ID

NWB3461-01

TestAmerica Job ID: NWB3461

Collected	Received	

02/24/12 16:35

3

4

02/25/12 08:30

R

9

Definitions/Glossary

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833 TestAmerica Job ID: NWB3461

Qualifiers

WetChem Qualifier

R2

Qualifier Description The RPD exceeded the acceptance limit.

Extractions

Qualifier **Qualifier Description**

The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS). M7

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

₩ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CNF Contains no Free Liquid

DL, RA, RE, IN Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL **Estimated Detection Limit**

United States Environmental Protection Agency **EPA**

MDL Method Detection Limit MLMinimum Level (Dioxin)

NDNot detected at the reporting limit (or MDL or EDL if shown)

Practical Quantitation Limit **PQL**

QC **Quality Control** Reporting Limit RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

Lab Sample ID: NWB3461-01

Matrix: Waste Water

Client Sample ID: Outfall 01 A Date Collected: 02/24/12 16:35

Date Received: 02/25/12 08:30

Method: SM2540 D - General Chem	istry Parameters							
Analyte	Result Qualifie	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.20	1.33	0.787	mg/L		02/25/12 22:15	02/25/12 22:15	1.33
_								

Method: EPA 1664A - General Chemistry Parameters								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Oil & Grease HEM	<1.24	3.81	1.24 mg/L		02/28/12 11:00	02/28/12 14:08	1.00

5

6

0

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

5

Method: SM2540 D - General Chemistry Parameters

Lab Sample ID: 12B6236-BLK1

Matrix: Water

Prep Type: Total
Analysis Batch: 12B6236

Prep Batch: 12B6236_P

Blank Blank

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total Suspended Solids
 <0.590</td>
 1.00
 0.590
 mg/L
 02/25/12 22:15
 02/25/12 22:15
 02/25/12 22:15
 1.00

Lab Sample ID: 12B6236-BS1

Matrix: Water

Analysis Batch: 12B6236

Spike

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12B6236_P

%Rec.

Analyte Added Result Qualifier Unit D %Rec Limits

Total Suspended Solids 100 99.9 mg/L 100 90 - 110

Lab Sample ID: 12B6236-DUP1 Client Sample ID: Duplicate

Matrix: Water Prep Type: Total Analysis Batch: 12B6236 Prep Batch: 12B6236_P

 Sample
 Sample
 Duplicate
 Duplicate
 Duplicate
 RPD

 Analyte
 Result
 Qualifier
 Qualifier
 Unit
 D
 RPD
 Limit

 Total Suspended Solids
 4.60
 4.30
 R2
 mg/L
 7
 5

Lab Sample ID: 12B6236-DUP2 Client Sample ID: Duplicate

Matrix: Water Prep Type: Total Analysis Batch: 12B6236 Prep Batch: 12B6236 P

Analysis Batch: 1286236

Sample Sample Duplicate Duplicate Prep Batch: 1286236_P

RPD

Analyte Result Qualifier Result Qualifier Unit D RPD Limit

<0.590

mg/L

Method: EPA 1664A - General Chemistry Parameters

Total Suspended Solids

<0.590

Lab Sample ID: 12B6448-BLK1

Client Sample ID: Method Blank
Matrix: Water

Prep Type: Total

Matrix: Water Prep Type: Total
Analysis Batch: 12B6448
Prep Batch: 12B6448_P

Result Qualifier RL MDL Unit D Prepared Dil Fac Analyte Analyzed Oil & Grease HEM <1.35 4.17 02/26/12 19:24 1.35 mg/L 02/28/12 14:08 1.00

Lab Sample ID: 12B6448-BS1

Matrix: Water

Client Sample ID: Lab Control Sample
Prep Type: Total

Analysis Batch: 12B6448

Spike

LCS LCS

Prep Batch: 12B6448_P

%Rec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Oil & Grease HEM
 40.0
 36.1
 mg/L
 90
 78 - 114

Lab Sample ID: 12B6448-BSD1 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 12B6448

Spike

LCS Dup

LCS Dup

RPD

Prep Type: Total

Prep Batch: 12B6448_P

RPD

QC Sample Results

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

3

Method: EPA 1664A - General Chemistry Parameters (Continued)

Lab Sample ID: 12B6448-MS1

Matrix: Water

Analysis Batch: 12B6448

Sample Sample Sample Spike Matrix Spike Matrix Spike Matrix Spike Matrix Spike %Rec.

 Analyte
 Result Oil & Grease HEM
 Qualifier Qualifier Square
 Added Added

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QC Association Summary

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

WetChem

Analysis Batch: 12B6236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6236-BLK1	Method Blank	Total	Water	SM2540 D	12B6236_P
12B6236-BS1	Lab Control Sample	Total	Water	SM2540 D	12B6236_P
12B6236-DUP1	Duplicate	Total	Water	SM2540 D	12B6236_P
12B6236-DUP2	Duplicate	Total	Water	SM2540 D	12B6236_P
NWB3461-01	Outfall 01 A	Total	Waste Water	SM2540 D	12B6236_P

Prep Batch: 12B6236_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6236-BLK1	Method Blank	Total	Water	SOLIDS	
12B6236-BS1	Lab Control Sample	Total	Water	SOLIDS	
12B6236-DUP1	Duplicate	Total	Water	SOLIDS	
12B6236-DUP2	Duplicate	Total	Water	SOLIDS	
NWB3461-01	Outfall 01 A	Total	Waste Water	SOLIDS	

Extractions

Analysis Batch: 12B6448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6448-BLK1	Method Blank	Total	Water	EPA 1664A	12B6448_P
12B6448-BS1	Lab Control Sample	Total	Water	EPA 1664A	12B6448_P
12B6448-BSD1	Lab Control Sample Dup	Total	Water	EPA 1664A	12B6448_P
12B6448-MS1	Matrix Spike	Total	Water	EPA 1664A	12B6448_P
NWB3461-01	Outfall 01 A	Total	Waste Water	EPA 1664A	12B6448_P

Prep Batch: 12B6448_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12B6448-BLK1	Method Blank	Total	Water	1664	
				HEM/SGTHEM	
12B6448-BS1	Lab Control Sample	Total	Water	1664	
				HEM/SGTHEM	
12B6448-BSD1	Lab Control Sample Dup	Total	Water	1664	
				HEM/SGTHEM	
12B6448-MS1	Matrix Spike	Total	Water	1664	
				HEM/SGTHEM	
NWB3461-01	Outfall 01 A	Total	Waste Water	1664	
				HEM/SGTHEM	

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40

Lab Chronicle

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

Lab Sample ID: NWB3461-01

Matrix: Waste Water

Client Sample ID: Outfall 01 A

Date Collected: 02/24/12 16:35 Date Received: 02/25/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Analysis	SM2540 D		1.33	12B6236	02/25/12 22:15	PES	TAL NSH
Total	Prep	SOLIDS		1.33	12B6236_P	02/25/12 22:15	PES	TAL NSH
Total	Prep	1664 HEM/SGTHEM		1.00	12B6448_P	02/28/12 11:00	BJM	TAL NSH
Total	Analysis	EPA 1664A		1.00	12B6448	02/28/12 14:08	JJR	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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8

Method Summary

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: NWB3461

Method	Method Description	Protocol	Laboratory
EPA 1664A	General Chemistry Parameters		TAL NSH
SM2540 D	General Chemistry Parameters		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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TestAmerica Job ID: NWB3461

Client: Exxonmobil Everett Terminal Project/Site: NPDES Permit MA0000833

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TestAmerica NashvilleUSDAFederalS-48469TestAmerica NashvilleUtahNELAC8TANTestAmerica NashvilleVirginiaNELAC Secondary AB3460152TestAmerica NashvilleVirginiaState Program300323TestAmerica NashvilleWashingtonState Program10C789TestAmerica NashvilleWest Virginia DEPState Program3219	Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nastiville Alabama State Program 4 41150 TestAmerica Nastiville Alaska (UST) State Program 10 UST-087 TestAmerica Nastiville Arzona State Program 9 A20473 TestAmerica Nastiville Arasanas DEO State Program 6 88-0737 TestAmerica Nastiville California NELAC 9 1168CA TestAmerica Nastiville Colorado State Program 8 NA TestAmerica Nastiville Colorado State Program 1 PH-0220 TestAmerica Nastiville Florida NELAC 4 E87388 TestAmerica Nastiville Illinois NELAC 4 E87388 TestAmerica Nastiville Kentucky State Program 7 131 TestAmerica Nastiville Kentucky (UST) State Program 4 90038 TestAmerica Nastiville Kentucky (UST) State Program 4 90038 TestAmerica Nastiville Kentucky (UST) State Program 3 36 <td>TestAmerica Nashville</td> <td></td> <td>ACIL</td> <td></td> <td>393</td>	TestAmerica Nashville		ACIL		393
TestAmerica Nashville Alaska (UST) State Program 10 UST-087 TestAmerica Nashville Arkaneas DEQ State Program 6 88-0737 TestAmerica Nashville California NELAC 9 1186CA TestAmerica Nashville Canadian Assoc Lab Accred (CAL) Canada 3744 TestAmerica Nashville Colorado State Program 8 N/A TestAmerica Nashville Connecticut State Program 1 PH-0220 TestAmerica Nashville Florida NELAC 4 E87358 TestAmerica Nashville Illinois NELAC 5 200010 TestAmerica Nashville Illinois State Program 7 131 TestAmerica Nashville Kansas NELAC 7 6 10229 TestAmerica Nashville Kentucky State Program 4 19 11 TestAmerica Nashville Kentucky State Program 4 19 12 TestAmerica Nashville Louisiana NELAC 6 <t< td=""><td>TestAmerica Nashville</td><td>A2LA</td><td>ISO/IEC 17025</td><td></td><td>0453.07</td></t<>	TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
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TestAmerica Nashville North Carolina DENR State Program 4 387 TestAmerica Nashville North Dakota State Program 8 R-146 TestAmerica Nashville Ohio VAP State Program 5 CL0033 TestAmerica Nashville Oklahoma State Program 6 9412 TestAmerica Nashville Oregon NELAC 10 TN200001 TestAmerica Nashville Pennsylvania NELAC 3 68-0585 TestAmerica Nashville Rhode Island State Program 1 LA000268 TestAmerica Nashville South Carolina State Program 4 84009 TestAmerica Nashville South Carolina State Program 4 84009 TestAmerica Nashville Tennessee State Program 4 84009 TestAmerica Nashville Texas NELAC 6 T104704077-09-TestAmerica Nashville USDA Federal S-48469 TestAmerica Nashville Utah NELAC 8 TAN TestAmerica Nashville Virginia State Program 3 00323 TestAmerica Nashville Virginia State Program 3 00323 TestAmerica Nashville Washington State Program 3 219	TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville North Dakota State Program 8 R-146 TestAmerica Nashville Ohio VAP State Program 5 CL0033 TestAmerica Nashville Oklahoma State Program 6 9412 TestAmerica Nashville Oregon NELAC 10 TN200001 TestAmerica Nashville Pennsylvania NELAC 3 68-00585 TestAmerica Nashville Rhode Island State Program 1 LAO00268 TestAmerica Nashville South Carolina State Program 4 84009 TestAmerica Nashville South Carolina State Program 4 84009 TestAmerica Nashville Tennessee State Program 4 84009 TestAmerica Nashville Tennessee State Program 4 84009 TestAmerica Nashville Texas NELAC 6 T104704077-09-TestAmerica Nashville USDA Federal S-48469 TestAmerica Nashville Utah NELAC 8 TAN TestAmerica Nashville Virginia NELAC 8 TAN TestAmerica Nashville Virginia State Program 3 00323 TestAmerica Nashville Washington State Program 10 C789 TestAmerica Nashville West Virginia DEP State Program 3 219	TestAmerica Nashville	New York	NELAC	2	11342
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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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COOLER RECEII



NWB3461

Cooler Received/Opened On <u>2/25/2012 @ 0830</u>	1111
1. Tracking # 9652 (last 4 digits, FedEx)	
Courier: FedEx IR Gun ID 97310166	
2. Temperature of rep. sample or temp blank when opened: //a / Degrees Celsius	_
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?	YES NO. NA
4. Were custody seals on outside of cooler?	YESNONA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	YES NO NA
6. Were custody papers inside cooler?	YESNONA
certify that I opened the cooler and answered questions 1-6 (intial)	
7. Were custody seals on containers: YES (TO) and Intact	YESNO.:(NA)
Were these signed and dated correctly?	YESNO
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pape	r Other None
9. Cooling process: (ce Ice-pack de (direct contact) Dry ice	Other None
10. Did all containers arrive in good condition (unbroken)?	MES).NONA
11. Were all container labels complete (#, date, signed, pres., etc)?	ÆŠ)NONA
12. Did all container labels and tags agree with custody papers?	(ES)NONA
13a. Were VOA vials received?	YES. NONA
b. Was there any observable headspace present in any VOA vial?	YESNONA
14. Was there a Trip Blank in this cooler? YESNO	ce #
certify that I unloaded the cooler and answered questions 7-14 (intial)	
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?	YESNO.
b. Did the bottle labels indicate that the correct preservatives were used	(YES).NONA
16. Was residual chlorine present?	YESNO.
certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	W
17. Were custody papers properly filled out (ink, signed, etc)?	YES NONA
18. Did you sign the custody papers in the appropriate place?	ESNONA
19. Were correct containers used for the analysis requested?	ES).NONA
20. Was sufficient amount of sample sent in each container?	ES).NONA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	<u>@</u>
certify that I attached a label with the unique LIMS number to each container (intial)	
21. Were there Non-Conformance issues at login? YES Was a PIPE generated? YES	NO.).#

NWB3461

estAmerica 02/28/12 23:59

HE LEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204 Consultant Name: ExxonMobil Everett Terminal
Address: 52 Beacham Street

Consultant Telephone Number: 617-381-2802

Sampler Name: (Print) Sampler Signature:

ExxonMobil Project Mgr: Emest Hayes

City/State/Zip: Everett, MA 02149

Consultant Project Mgr: Triumvirate - Sandra Perry (Call Visoth at (617) 799 - 4357 for sample related questions)

Fax No.: 617-381-2954

Regulatory District (CA)

\nalyze For

City, State, Zip

Site Address SAME

Facility ID #

2960 Foster Creighton

Nashville Division

Toll Free: 800-765-0980 Phone: 615-726-0177

Fax: 615-726-3404

TA Acco PROJECT #: NPDES Permit MA0000833

Invoice To: (ExxonMobil PM unless otherwise indicated)

Report To: sperry@triumvirate.com; ernest e.haynes@exxonmobil.com
PO #:

mt#:	

Laboratory case narative to NELAC institute standard protocol, Outfall 01 A Sample ID or Field ID Comments/Special Instructions: Outfall 01 A Note: REQUIREMENTS February 2012 **ISTRAIN** 755 Results Needed by 2 -28/2 5 Day TAT on OxG 48hour 141 2.24/2 Date \$34-12 11:35 3 Date Sampled Date on 755; Time Sampled N) No. of Containers Shipped Time me Grab Received by TestAmerica: when having Composite Field Filtered Methanol Sødium Bisulfate HCl (Blue Label) NaOH (Orange Label) H₂SO₄ Plastic (Yellow Label) H₂SO₄ Glass(Yellow Label) HNO₃ (Red Label) None (Black Label) Groundwater 2.25.12 Wastewate Drinking Water Date Sludge Soll Other (specify): BB 7007+703 Time Time TSS - SM 2540D O & G by EPA 1864 by phone or fax that a rush sample will be submitted.
TA Project Manager.
Date: QC Deliverables (please circle one) Laboratory Comments: consultant to notify the TestAmerica Project Manage It will be the responsibility of ExconMobil or its Sample Containers Intact?
VOCs Free of Headspace? Temperature Upon Receipt: NW1334101-01 Level 4 03 02 4 1 L Glass Flow (MGD): _ Plastic 뫘 ~ ~ JSH TAT (Pre-Schedule)

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Prepared vsreng 01A

'AT request (in Bus. Days

Fax Results (yes or no) Due Date of Report